

WHAT IS CLAIMED IS:

1. A method of aligning an intracorneal inlay relative to a cornea for the purpose of correcting refractive error in an eye, comprising the steps of
marking at least one axis on the outer surface of the cornea,
separating a portion of the cornea, forming a first anterior facing surface and a second posterior facing surface,
positioning an inlay having at least one axis indicated on the surface thereof between the first and second surfaces, and
aligning the at least one axis on the inlay with the at least one axis on the surface of the cornea.
2. A method according to claim 1, wherein
the marking step includes marking at least five axes on the outer surface of the cornea.
3. A method according to claim 2, wherein
the marking step includes marking the outer surface of the cornea with a marking tool having at least five axes thereon.
4. A method according to claim 3, wherein
the marking step includes positioning the marking tool adjacent the outer surface of the cornea and marking a line along each of the five axes of the marking tool.
5. A method according to claims 1, wherein
the separating step includes separating a portion of the cornea to form a flap thereon, the flap attached to the cornea at an outer peripheral area thereof.

6. A method according to claim 5, further comprising the step of
pivoting the flap about the area attached to the cornea to expose the first
anterior facing surface of the cornea.
7. A method according to claim 6, wherein
the positioning step includes positioning an inlay having a removable, pliable
sheet overlying the inlay indicating the at least one axis.
8. A method according to claim 7, further comprising the steps of
marking the main optical axis of the eye on the outer surface of the cornea
prior to marking the at least one axis on the surface of the cornea,
marking the main optical axis of the eye on the first anterior facing surface of
the cornea, and
marking the first anterior facing surface of the cornea with at least five axes in
about the same orientation as the markings on the surface of the cornea.
9. A method according to claim 8, further comprising the steps of
repositioning the flap over the inlay,
aligning the markings on the outer surface of the eye and the marking on the
first anterior facing surface with the marking on the removable, pliable sheet, and
removing the removable, pliable sheet overlying the inlay.
10. A method according to claim 9, wherein
the positioning step includes positioning an inlay adapted to correct astigmatic
error in the eye between the first and second surface.
11. A method according to claim 1, wherein
the positioning step includes positioning a ring shaped inlay between the first
and second surfaces.

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18. A method according to claim 17, wherein

the marking step includes positioning the marking tool adjacent the first surface of the cornea and marking a line along each of the five axes of the marking tool.

19. A method according to claims 15, wherein

the separating step includes separating a portion of the cornea to form a flap thereon, the flap attached to an area of the cornea at the circumference thereof.

20. A method according to claim 19, further comprising the step of

pivoting the flap about the area attached to the cornea to expose the first anterior facing surface of the cornea.

21. A method according to claim 20, wherein

the positioning step includes positioning an inlay having a removable, pliable sheet overlying the inlay indicating the second axis between the first and second surfaces.

22. A method according to claim 21, further comprising the steps of

marking the main optical axis of the eye on the external surface of the cornea, marking the external surface of the cornea with a third axis in about the same orientation as the markings on the first anterior surface, and

marking the main optical axis of the eye on at least one of the first and second surfaces of the cornea prior to marking the first axis on the at least one of the first and second surfaces of the cornea.

23. A method according to claim 22, further comprising the steps of

repositioning the flap over the inlay, aligning the first axis and the third axis with the second axis, and removing the pliable sheet overlying the inlay.

24. A method according to claim 23, wherein
the positioning step includes positioning an inlay adapted to correct astigmatic error in the eye between the first and second surfaces.
25. A method according to claim 15, wherein
the positioning step includes positioning a ring shaped inlay between the first and second surfaces.
26. A method according to claim 25, wherein
the positioning step includes positioning a ring shaped inlay having at least two separable portions between the first and second surfaces.
27. A method according to claim 15, wherein
the positioning step includes positioning an inlay adapted to correct astigmatic error in the eye between the first and second surface.
28. An inlay for correcting the refractive error in the cornea of the eye, comprising:
a first surface for placement onto an exposed surface of the cornea,
a second surface opposite the first surface, and
a removable sheet of material overlying the second surface, said sheet having markings thereon for accurately positioning the inlay on the exposed surface of the cornea.
29. An inlay according to claim 28, wherein
said markings on said removable sheet are at least ten radial axes extending from about the center of the inlay in a direction of the periphery of the inlay.
30. An inlay according to claim 28, wherein
said inlay is asymmetric for the purpose of correcting astigmatic error in the eye.

said inlay is transparent, so that said markings can be aligned with markings on the surface of the exposed portion of the cornea.

said removable sheet is pliable to conform to the second surface of the inlay.

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